Abstract

RFID, in today’s scenario is playing a vital role in multiple domains, and has become an inevitable tool to manage inventory, animal husbandry, and substituting barcode technology. We see its use at metro stations, so it shows multifaceted use making it an umbrella technology which is cost efficient too. In context to mobile readers, the security of communication channel between reader and backend server is compromised; the same also applies on tag reader communication so prevention of illegal reader and tags to enter the system is at most necessary. Also, counterfeiters have become a global phenomenon cause a threat to security. This paper aims to propose an authentication protocol to check the illegal tag and reader that breaches the system. Hash based function and public key encryption techniques are implemented on authentication protocol.
An Authentication Protocol with Anti-Counterfeit for RFID Communication System


Index Terms

Computer Science

Communication Systems

Keywords

Authentication Anti-counterfeit public-key encryption